

#13



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/513,999C

DATE: 10/24/2002

TIME: 16:14:37

Input Set : D:\SEQLIST59_Corrige_Oct02.txt

Output Set: N:\CRF4\10242002\I513999C.raw

3 <110> APPLICANT: Dumas Milne Edwards, J.B.
4 Duclert, A.
5 Giordano, J.Y.
7 <120> TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
9 <130> FILE REFERENCE: 59.US2.REG
11 <140> CURRENT APPLICATION NUMBER: US 09/513,999C
12 <141> CURRENT FILING DATE: 2000-02-24
14 <150> PRIOR APPLICATION NUMBER: US 60/122,487
15 <151> PRIOR FILING DATE: 1999-02-26
17 <160> NUMBER OF SEQ ID NOS: 36681
19 <170> SOFTWARE: Patent.pm
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 822
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo Sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: CDS
28 <222> LOCATION: 346..552
30 <221> NAME/KEY: sig_peptide
31 <222> LOCATION: 346..408
32 <223> OTHER INFORMATION: Von Heijne matrix
35 <220> FEATURE:
36 <221> NAME/KEY: misc_feature
37 <222> LOCATION: 113
38 <223> OTHER INFORMATION: s=g or c
40 <220> FEATURE:
41 <221> NAME/KEY: misc_feature
42 <222> LOCATION: 115
43 <223> OTHER INFORMATION: n=a, g, c or t
45 <220> FEATURE:
46 <221> NAME/KEY: misc_feature
47 <222> LOCATION: 499
48 <223> OTHER INFORMATION: r=a or g
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
52 <222> LOCATION: 566
53 <223> OTHER INFORMATION: r=a or g
55 <220> FEATURE:
56 <221> NAME/KEY: misc_feature
57 <222> LOCATION: 585
58 <223> OTHER INFORMATION: k=g or t
60 <220> FEATURE:
61 <221> NAME/KEY: misc_feature

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62 <222> LOCATION: 610
63 <223> OTHER INFORMATION: r=a or g
65 <220> FEATURE:
66 <221> NAME/KEY: misc_feature
67 <222> LOCATION: 699
68 <223> OTHER INFORMATION: r=a or g
70 <220> FEATURE:
71 <221> NAME/KEY: misc_feature
72 <222> LOCATION: 700
73 <223> OTHER INFORMATION: m=a or c
75 <220> FEATURE:
76 <221> NAME/KEY: misc_feature
77 <222> LOCATION: 782
78 <223> OTHER INFORMATION: w=a or t
80 <220> FEATURE:
81 <221> NAME/KEY: UNSURE
82 <222> LOCATION: 31
83 <223> OTHER INFORMATION: Xaa=Glu or Lys
W--> 85 <400> 1
86 actccttttta gcataggggc ttgggcgcca ggggccagcg ctagtgggtc tggtaagtgc 60
W--> 87 ctgatgccga gttccgtctc tggcgctctt tcttggtccc aggcaaagcg gasgnagatc 120
88 ctcaaacggc ctagtgtctc gcgcttcggg agaaaatcag cgggtctaatt aattcctctg 180
89 gtttggtgaa gcagttacca agaattctca accctttccc acaaaagcta attgagtaca 240
90 cggttcctggt gagtacacgt tctgtttgat ttacaaaagg tgcaggtatg agcaggtctg 300
91 aagactaaca ttttgtgaag ttgtaaaaca gaaaacctgt tagaa atg tgg tgg ttt 357
92 Met Trp Trp Phe
93 -20
94 cag caa ggc ctc agt ttc ctt cct tca gcc ctt gta att tgg aca tct 405
95 Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val Ile Trp Thr Ser
96 -15 -10 -5
97 gct gct ttc ata ttt tca tac att act gca gta aca ctc cac cat ata 453
98 Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr Leu His His Ile
99 1 5 10 15
100 gac ccg gct tta cct tat atc agt gac act ggt aca gta gct cca raa 501
W--> 101 Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr Val Ala Pro Xaa
102 20 25 30
103 aaa tgc tta ttt ggg gca atg cta aat att gcg gca gtt tta tgt caa 549
104 Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala Val Leu Cys Gln
105 35 40 45
106 aaa tagaaatcag gaarataatt caacttaaag aakttcattt catgaccaa 602
107 Lys
108 ctcttcaraa acatgtcttt acaagcatat ctcttgtatt gctttctaca ctgttgaatt 662
109 gtctggcaat atttctgcag tggaaaattt gatttarmta gttcttgact gataaatatg 722
110 gtaaggtggg cttttccccc tgtgtaattg gctactatgt cttactgagc caagttgtaw 782
111 tttgaaataa aatgatatga gagtgacaca aaaaaaaaaa 822
113 <210> SEQ ID NO: 2
114 <211> LENGTH: 21
115 <212> TYPE: PRT
116 <213> ORGANISM: Homo Sapiens

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118 <220> FEATURE:
119 <221> NAME/KEY: SIGNAL
120 <222> LOCATION: 1..21
121 <223> OTHER INFORMATION: Von Heijne matrix
122     score 5.5
123     seq SFLPSALVIWISA/AF
126 <400> SEQUENCE: 2
127 Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val
128 1           5           10           15
129 Ile Trp Thr Ser Ala
130           20
132 <210> SEQ ID NO: 3
133 <211> LENGTH: 526
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo Sapiens
137 <220> FEATURE:
138 <221> NAME/KEY: CDS
139 <222> LOCATION: 90..344
141 <221> NAME/KEY: sig_peptide
142 <222> LOCATION: 90..140
143 <223> OTHER INFORMATION: Von Heijne matrix
146 <220> FEATURE:
147 <221> NAME/KEY: misc_feature
148 <222> LOCATION: 6
149 <223> OTHER INFORMATION: r=a or g
151 <220> FEATURE:
152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: 8
154 <223> OTHER INFORMATION: r=a or g
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: 32
159 <223> OTHER INFORMATION: r=a or g
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <222> LOCATION: 80
164 <223> OTHER INFORMATION: r=a or g
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: 137
169 <223> OTHER INFORMATION: w=a or t
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: 209
174 <223> OTHER INFORMATION: r=a or g
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <222> LOCATION: 210
179 <223> OTHER INFORMATION: w=a or t

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181 <220> FEATURE:
182 <221> NAME/KEY: misc_feature
183 <222> LOCATION: 290
184 <223> OTHER INFORMATION: n=a, g, c or t
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: 352
189 <223> OTHER INFORMATION: r=a or g
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: 366
194 <223> OTHER INFORMATION: r=a or g
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: 411
199 <223> OTHER INFORMATION: r=a or g
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: 435
204 <223> OTHER INFORMATION: r=a or g
206 <220> FEATURE:
207 <221> NAME/KEY: UNSURE
208 <222> LOCATION: 24
209 <223> OTHER INFORMATION: Xaa=Phe or Ile
211 <220> FEATURE:
212 <221> NAME/KEY: UNSURE
213 <222> LOCATION: 50
214 <223> OTHER INFORMATION: Xaa=Lys or Asn
W--> 216 <400> 3
217 aatatararac agctacaata ttccagggcc artcacttgc cattttctcat aacagcgtca 60
218 gagagaaaga actgactgar acggtttgag atg aag aaa gtt ctc ctc ctg atc 113
219                                     Met Lys Lys Val Leu Leu Leu Ile
220                                     -15                               -10
221 aca gcc atc ttg gca gtg gct gtw ggt ttc cca gtc tct caa gac cag 161
222 Thr Ala Ile Leu Ala Val Ala Val Gly Phe Pro Val Ser Gln Asp Gln
223                                     -5                               1                               5
224 gaa cga gaa aaa aga agt atc agt gac agc gat gaa tta gct tca ggr 209
225 Glu Arg Glu Lys Arg Ser Ile Ser Asp Ser Asp Glu Leu Ala Ser Gly
226                                     10                               15                               20
227 wtt ttt gtg ttc cct tac cca tat cca ttt cgc cca ctt cca cca att 257
W--> 228 Xaa Phe Val Phe Pro Tyr Pro Tyr Pro Phe Arg Pro Leu Pro Pro Ile
229                                     25                               30                               35
W--> 230 cca ttt cca aga ttt cca tgg ttt aga cgt aan ttt cct att cca ata 305
W--> 231 Pro Phe Pro Arg Phe Pro Trp Phe Arg Arg Xaa Phe Pro Ile Pro Ile
232 40                               45                               50                               55
233 cct gaa tct gcc cct aca act ccc ctt cct agc gaa aag taaacaaraa 354
234 Pro Glu Ser Ala Pro Thr Thr Pro Leu Pro Ser Glu Lys
235                                     60                               65
236 ggaaaagtca crataaacct ggtcacctga aattgaaatt gagccaattc cttgaaraat 414

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237 caaaattcct gttaataaaa raaaaacaaa tgtaattgaa atagcacaca gcattctcta      474
238 gtcaatatct ttagtgatct tctttaataa acatgaaagc aaaaaaaaaa aa          526
240 <210> SEQ ID NO: 4
241 <211> LENGTH: 17
242 <212> TYPE: PRT
243 <213> ORGANISM: Homo Sapiens
245 <220> FEATURE:
246 <221> NAME/KEY: SIGNAL
247 <222> LOCATION: 1..17
248 <223> OTHER INFORMATION: Von Heijne matrix
249     score 8.2
250     seq LLLITAILAVAVG/FP
253 <400> SEQUENCE: 4
254 Met Lys Lys Val Leu Leu Leu Ile Thr Ala Ile Leu Ala Val Ala Val
255 1             5             10             15
256 Gly
258 <210> SEQ ID NO: 5
259 <211> LENGTH: 848
260 <212> TYPE: DNA
261 <213> ORGANISM: Homo Sapiens
263 <220> FEATURE:
264 <221> NAME/KEY: CDS
265 <222> LOCATION: 32..697
267 <221> NAME/KEY: sig_peptide
268 <222> LOCATION: 32..73
269 <223> OTHER INFORMATION: Von Heijne matrix
272 <220> FEATURE:
273 <221> NAME/KEY: misc_feature
274 <222> LOCATION: 540
275 <223> OTHER INFORMATION: d=a or g or t
277 <220> FEATURE:
278 <221> NAME/KEY: misc_feature
279 <222> LOCATION: 543
280 <223> OTHER INFORMATION: r=a or g
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
284 <222> LOCATION: 581
285 <223> OTHER INFORMATION: r=a or g
287 <220> FEATURE:
288 <221> NAME/KEY: misc_feature
289 <222> LOCATION: 586
290 <223> OTHER INFORMATION: k=g or t
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: 725
295 <223> OTHER INFORMATION: r=a or g
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: 788

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 Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.